

Contingency Allowances for Current Working Estimates Construction Projects

<u>ENGINEERING</u>	On Remaining Cost Not Incurred
Before Detailed Estimates:	15% - 25%

After Detailed Estimates: 10%

b. <u>EQUIPMENT PROCUREMENT</u>

Before Bid:

Budget	15% - 25%
Title I	10% - 20%
Title II	5% - 15%

After Award:

Cost Plus Award Fee (CPAF) Contract	15%
Fixed Price Contract	1% - 5%
After Delivery to Site (if no rework)	0%

c. <u>CONSTRUCTION</u>

Prior to Award:

Budget	15% - 25%
Title I	10% - 20%
Title II	5% - 15%

After Award:

CPAF Contract	15% - 17.5%
Fixed-Price Contract	3% - 8%

TOTAL CONTINGENCY (CALCULATED) Total of above item

contingencies



Construction Projects

Unforeseen, uncertain, and unpredictable conditions will exist. Therefore, using the DOE cost code of accounts for construction, the following percentages are provided for planning and budget estimating and are listed in order of increasing complexity:

Land and Land Rights	5% - 10%
Improvements to Land/Standards Equipment	10% - 15%
New Buildings and Additions, Utilities, Other Structures	15% - 20%
Engineering	15% - 25%
Building Modifications	15% - 25%
Special Facilities (Standard)	20% - 30%
Experimental/Special Conditions	Up to 50%

The following considerations which affect the selection in the ranges: state-of-the-art design, required reliability, equipment complexity, construction restraints caused by continuity of operation, security, contamination, environmental (weather, terrain, location), scheduling, and other items unique to the project (e.g., nuclear and waste management permits and reviews).



Contingency Allowances Guide By Type of Estimate Construction Projects

Overall Contingency
Allowances
% of Remaining Costs

	_	,	% of Remaining Costs
	Type	of	<u>Estimate</u>
	Not Incurred		
a.	PLANNING [Prior to Conceptual Design F	Report (CDR)]	
	Standard Experimental/Special Conditions		20% - 30 Up to 50%
b.	BUDGET (Based on CDR) Standard Experimental/Special Conditions		15% - 25% Up to 40%
c.	TITLE I		10% - 20%
d.	TITLE II DESIGN		5% - 15%
e.	GOVERNMENT (BID CHECK)		5% to 15% adjusted to suit market conditions
f.	INDEPENDENT ESTIMATE	•	To suit status of oject and s judgment



Guidelines for Environmental Restoration Projects

Activity and Estimate Type	Expected Contingency
Range	Contingency
Contingency Guidelines for Assessment Phase	
Preliminary Assessment/Site Investigation	Up to 100%
Planning Estimate for All Assessment Activities	•
Preliminary Estimate for All Assessment Activities	30% to 70%
Remedial Investigation/Feasibility Study	15% to 55%
Detailed Estimate for All Cleanup Phase Activities	
Planning Estimate for All Cleanup Phase Activities	20% to 100%
Contingency Guidelines for Remediation/Cleanup Phase	
Pre-Design Preliminary Estimate for All Remediation/Cleanup Phase Activities	Up to 50%
Remedial Design and Action Detailed Estimate for all remediation/cleanup phase activities	0% to 25%

This table shows the estimate types for the assessment and remediation phase of an environmental restoration project and their corresponding expected contingency ranges. No contingency ranges for planning estimates have been provided. The contingency becomes smaller as the project progresses and becomes better defined. Note, that these are only general guidelines based on the level of project definition. A higher or lower contingency may be appropriate depending on the level of the project complexity, technical innovation, market innovation, and public acceptance.

